

WE CLAIM:

1. A method of producing a mass culture of a rusticle consortia, comprising the steps of:

providing a growth substrate;

placing one or more samples obtained from a rusticle on the growth substrate;

placing the growth substrate with the samples thereon into a tank filled with an aqueous solution; and

controlling an environment of the aqueous solution to facilitate growth of the rusticle on the growth substrate.

2. A method according to claim 1; wherein the growth substrate comprises an anodically charged metal.

3. A method according to claim 2; wherein the growth substrate comprises a mild steel plate.

4. A method according to claim 3; further comprising the step of embrittling the mild steel plate.

5. A method according to claim 4; wherein the step of embrittling comprises hammering the steel plate at about 3000 p.s.i. for approximately 60 minutes.

6. A method according to claim 3; wherein the mild steel plate has a chemical composition comprising at least 0.8% phosphorus, at least 1.2% sulfur, and at least 1.4% manganese.

7. A method according to claim 3; further comprising the step of rolling the mild steel plate to promote the formation of lateral pearlite deposits within the steel plate to cause a flaking form of corrosion.

8. A method according to claim 1; wherein the growth substrate is formed of unlike metals.

9. A method according to claim 8; wherein the unlike metals are Fe and Cu.

10. A method according to claim 1; wherein the aqueous solution comprises water containing at least five ppm of oxygen and a nutrient substrate containing at least 1% of ferric ammonium citrate and inorganic nutrients.

11. A method according to claim 10; wherein the step of controlling an environment of the aqueous solution comprises maintaining a pH level of the aqueous solution within the range of 7.4 and 8.4.

12. A method according to claim 11; wherein the step of controlling an environment of the aqueous solution further comprises the step of maintaining a salt concentration of the aqueous solution in a range of .3 to .8 %.

13. A method according to claim 12; wherein the step of controlling an environment of the aqueous solution further

comprises the step of controlling a concentration of phosphorus to be within the range of 0.05 and .15 ppm.

14. A method according to claim 13; wherein the step of controlling an environment of the aqueous solution further comprises the step of controlling a temperature of the culture in an ambient room temperature range.

15. A method according to claim 1; further comprising the step of applying a charge to a location near the growth substrate to form a concentration of particles given off by the rusticle.

16. A therapeutic substance comprising a mass culture of a rusticle consortia produced according to claim 1.

17. A therapeutic substance comprising a substance produced by a mass culture of a rusticle consortia produced according to claim 1.

18. An antimicrobial substance comprising a mass culture of a rusticle consortia produced according to claim 1.

19. An antibiotic substance comprising a mass culture of a rusticle consortia produced according to claim 1.